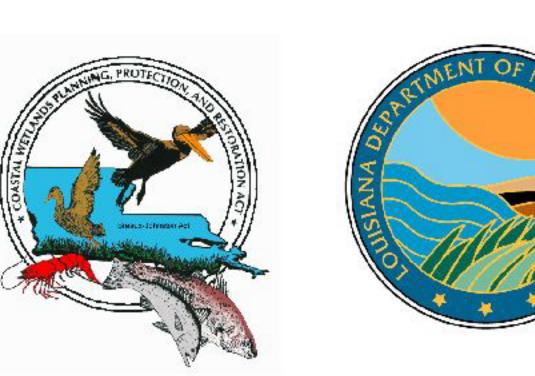
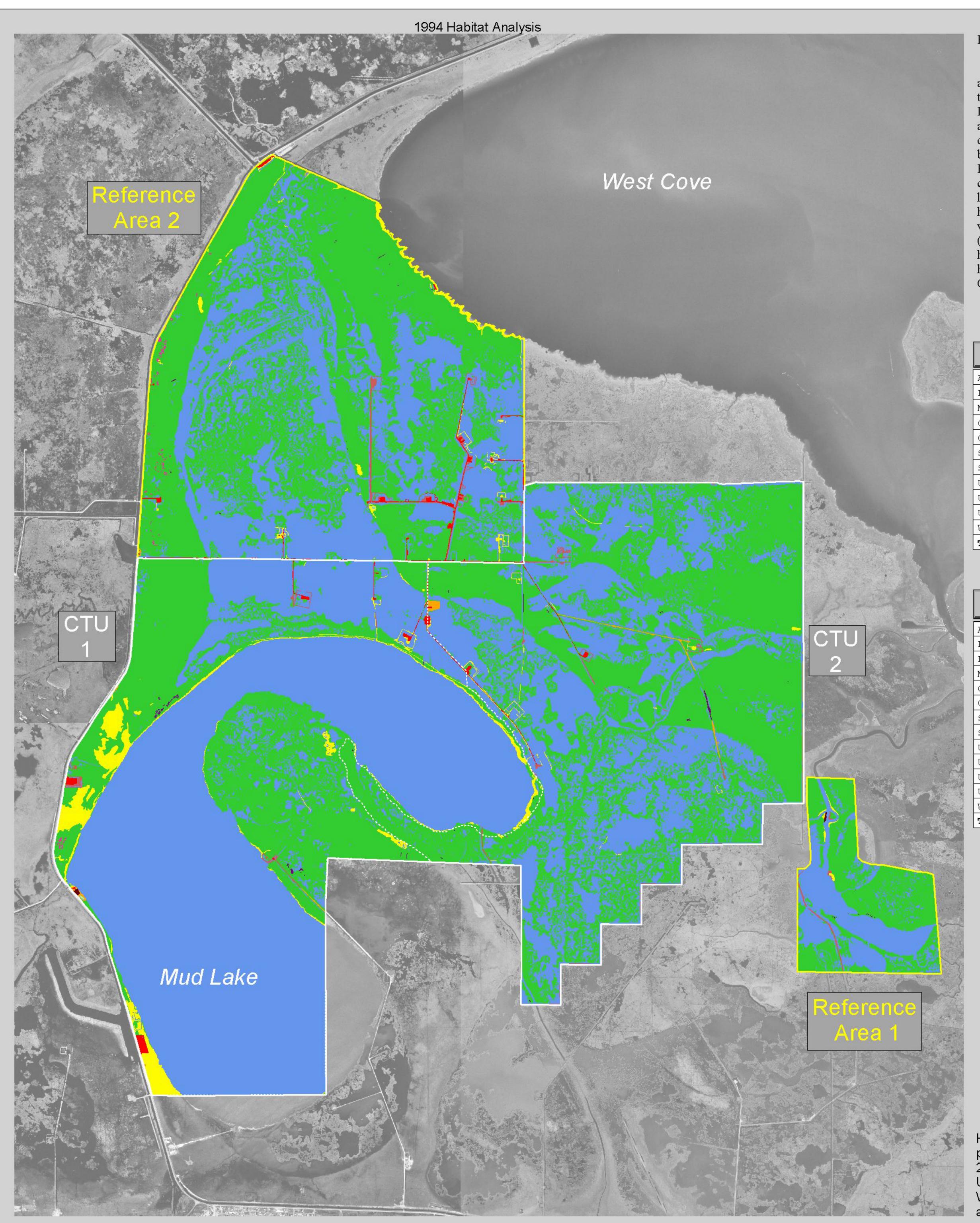


East Mud Lake Marsh Management (CS-20) Coastal Wetlands Planning, Protection and Restoration Act



1994 and 2000 Habitat Analysis



Project Description:

The East Mud Lake Marsh M

The East Mud Lake Marsh Management project area consists of 7,207 acres (2916.7 ha) located in the Cameron/Sabine Basin in Cameron Parish, Louisiana. Historically, the East Mud Lake project area has supported brackish marsh (Chabreck and others, 1968; Chabreck and Linscombe, 1988) because of its low salinity and water levels. However, hydrologic conditions have changed causing elevated water levels, rapid water-level fluctuation, and high salinities. These changes have led to the degradation of emergent wetland vegetation with a marsh loss rate of 76 acres (31.8 ha) per year from 1953 to 1983. These losses have been caused by several human-induced hydrological changes such as the redredging of the Calcasieu Ship Channel in 1951 and 1968 to a final

width of 400 ft (122.0 m) and a depth of 40 ft

(12.2 m) (USDA-SCS, 1980).

The East Mud Lake Project is designed to reduce wetland degradation by (1) reducing rapid fluctuations in water and salinity levels; (2) reducing prolonged periods of marsh inundation; and (3) enhancing regeneration of desired emergent and submergent vegetation. The project area is divided into two conservation treatment units (CTUs) that have been managed separately. The first CTU has been passively managed with shoreline repair, vegetative plantings, earthen plugs, and culverts. The second CTU has been actively managed for drawdown capabilities to encourage shallow areas to revert to emergent vegetation.

1994 Habitat Analysis Results

Class	Project Acres	CTU 1 Acres	CTU 2 Acres	Reference 1 Acres	Reference Acres
Agriculture/Range	13.8	2.4	11.4	0.0	0.9
Fresh Marsh	0.1	0.1	0.0	0.0	0.0
Mud Flat-Salt	3.7	2.0	1.7	0.2	0.5
Open Water-Fresh	0.1	0.1	0.0	0.0	0.2
Open Water-Salt	4184.4	2802.5	1381.8	201.5	1146.8
Salt Marsh	2827.5	988.9	1838.7	256.3	1710.8
Submerged Aquatics-Salt	0.9	0.8	0.1	0.0	4.3
Upland Forested	0.7	0.7	0.0	0.4	0.1
Upland Scrub-Shrub	21.3	6.5	14.8	4.0	17.1
Urban	17.9	12.6	5.3	0.0	23.3
Wetland Scrub-Shrub-Salt	137.0	127.7	9.3	2.5	24.1
Total	7207.4	3944.3	3263.1	464.9	2928.1

2000 Habitat Analysis Results

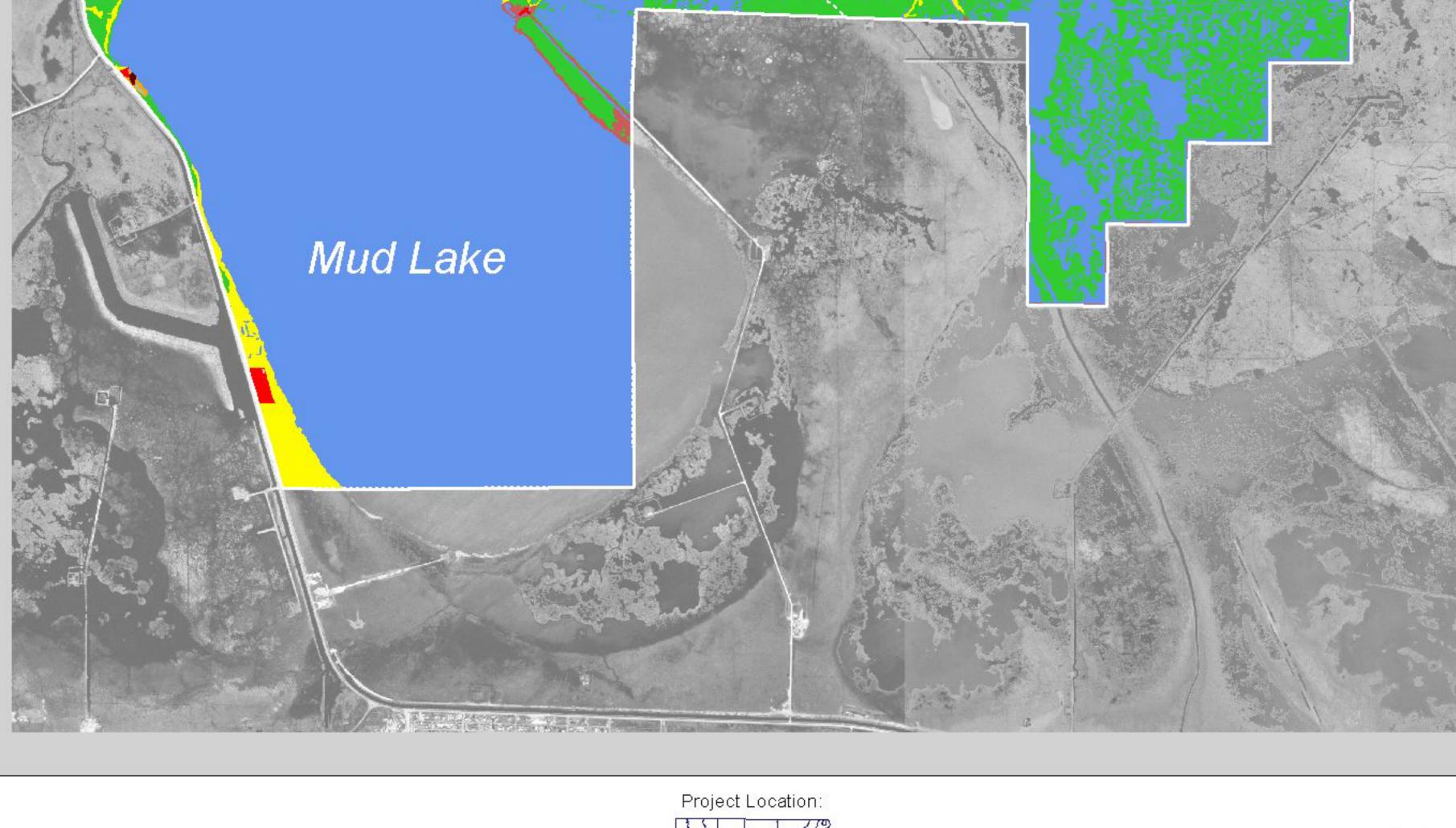
Class	Project Acres	CTU 1 Acres	CTU 2 Acres	Reference 1 Acres	Reference Acres
Agriculture/Range	7.4	0.9	6.5	0.1	2.7
Forested Wetlands-Fresh	0.1	0.1	0.0	0.3	0.0
Fresh Marsh	0.0	0.0	0.0	0.0	0.0
Mud Flat Salt	0.5	0.0	0.5	3.9	0.3
Open Water-Fresh	0.1	0.1	0.0	0.0	0.1
Open Water-Salt	4102.3	2856.3	1245.7	200.3	1162.3
Salt Marsh	2854.2	902.3	1952.2	253.2	1668.2
Submerged Aquatics-Salt	0.0	0.0	0.0	0.0	5.9
Upland Barren	0.1	0.0	0.1	0.0	0.2
Upland Forested	0.4	0.4	0.0	0.6	0.2
Upland Scrub-Shrub	32.4	11.2	21.2	3.6	19.6
Urban	21.3	16.4	4.9	0.0	27.5
Wetland Scrub-Shrub-Salt	188.6	156.6	32.0	2.9	41.1
Total	7207.4	3944.3	3263.1	464.9	2928.1

Habitat Classes





Habitat data were derived from 1:12:000-scale, color-infrared photography. Preconstruction photography was obtained December 26, 1994. 2000 photography was obtained November 27, 2000. Classes are based on "Classification of Wetlands and Deepwater Habitats of the United States," (Cowardin and others, 1979, FWS/OBS-79/31) as modified for the National Wetlands Inventory mapping conventions. The data were overlaid on a 1998 DOQQ image at 1:30,000 scale.



2000 Habitat Analysis

West Cove

Prepared by:
U.S. Department of the Interior
U.S. Geological Survey
National Wetlands Research Center
Lafayette, Louisiana
and

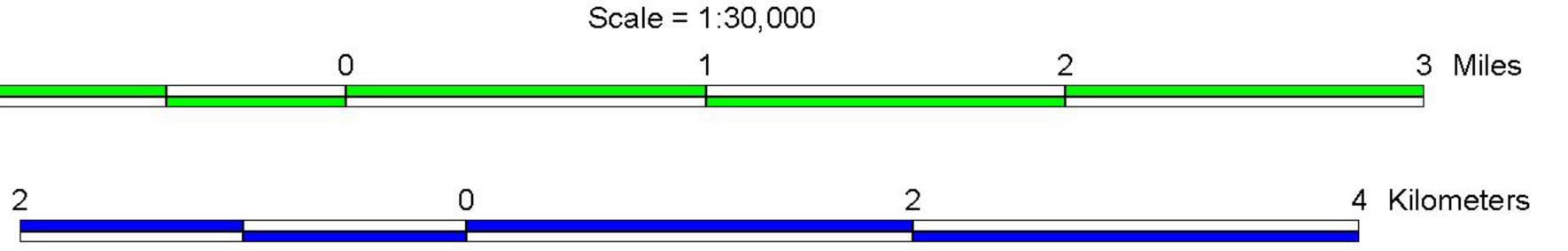
Lafayette, Louisiana and Louisiana Department of Natural Resources Coastal Restoration Division Lafayette Field Office References:

Chabreck, R.H., Joanen, T., and Palmisano, A.W., 1968, Vegetative type map of the Louisiana coastal marshes: New Orleans, Louisiana Department of Wildlife and Fisheries.

Chabreck, R.H., and Linscombe G., 1988, Vegetative type map of the Louisiana coastal marshes: New Orleans, Louisiana Department of Wildlife and Fisheries.

Cowardin, L.M., Carter, V., Golet, F.C., LaRoe, E.T., 1979, Classification of Wetlands and Deepwater Habitats of the United States: Washington, D.C., U.S. Fish and Wildlife Service.

U.S. Department of Agriculture- Soil Conservation Service, 1980, Soil Survey Maps 64, 65, 66, 80, 81, 82, 97, 98, and 99 for Cameron Parish, LA: Washington D.C, U.S. Government Printing Office.





Federal Sponsor:
U.S. Department of Agriculture
Natural Resources Conservation Service

USDA NRCS Resources
Conservation Service

Map ID: USGS/NWRC 2003-02-002